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Abundant, Sandy-cove, near Dublin.

[To be continued.]

XXXIV.—List of Phanerogamous Plants, together with the Cryptogamic Orders Filices, Equisetaceæ, and Lycopodiaceæ, observed in the Shetland Islands. By THOMAS EDMONDSTON, Jun., Esq.

MONANDRIA MONOGYNIA.

1. *Hippuris vulgaris*. Deep muddy streams. Common.
2. *Salicornia herbacea*. Salt marshes. Frequent.

MONANDRIA DIGYNIA.

3. *Callitricha verna*. Pools and marshes. Common.

DIANDRIA MONOGYNIA.

4. *Veronica officinalis*. Not very common. Chiefly in dry stony places.—Var. β . *rigida*. Common in all waste grounds: stem erect; very rigid leaves, *not* serrated; all the plant glabrous; capsule very distinctly winged.
— *montana*. Rare. Ollaberry; Northmavin.
— *Beccabunga*. Rare. Near Tingwall.
— *Anagallis*. Rare. Brook near Laxfirth Mainland.
5. *Pinguicula vulgaris*. Uncultivated grounds. Everywhere abundant.

DIANDRIA DIGYNIA.

6. *Anthoxanthum odoratum*. Common.

TRIANDRIA MONOGYNIA.

7. *Iris Pseudacorus*. Common in all damp places.
8. *Schænus nigricans*. Damp heaths. Abundant.
— *albus*. Marshy places. Rare. Moola Unst.
9. *Scirpus cæspitosus*. Heaths. Very abundant.
— *lacustris*. Rare. Loch of Lund, Unst: probably not indigenous.
— *palustris*. Salt marshes chiefly. Common.
10. *Eriophorum vaginatum*. On the more elevated heaths, as Hermessun, Unst. Most common.
— *polystachion*. All marshy places. Common.
11. *Nardus stricta*. Heathy grounds. Common.

TRIANDRIA DIGYNIA.

12. *Phalaris arundinacea*. Common.
13. *Phleum pratense*. On the richer grounds abundant.

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14. *Alopecurus geniculatus*. Wet places. Common.
15. *Agrostis vulgaris*. Common.
— *alba*. Wet places. Abundant.
16. *Aira cæspitosa*. Waste places. Not common.
— *flexuosa*. Heaths. Frequent.
— *præcox*. Cultivated grounds. Common.
17. *Holcus lanatus*. Waste and cultivated ground. Common.
18. *Melica cærulea*. Heaths, &c. Common.
19. *Poa trivialis*. Pastures, &c. Common.
— *pratensis*. Meadows and pastures. Abundant.
— *annua*. Waste grounds. Common.
20. *Glyceria fluitans*. Streams and ditches. Abundant.
21. *Briza media*. Rare. Unst.
22. *Dactylis glomerata*. Pastures, &c. Common.
23. *Cynosurus cristatus*. Meadows and pastures.
24. *Festuca ovina*. Dry pastures. Common.
— *vivipara*. Elevated heaths. Common.
— *duriuscula*. Common.
— *elatior*. Sides of lakes and streams. Rare.
25. *Bromus mollis*. Fields and waste grounds. Common.
— *arvensis*. Fields. Rare.
26. *Avena fatua*. Not common. Shetland name Hug-aits.
27. *Arundo Phragmites*. Rare. Loch near Ronas-hill.
— *Calamagrostis*. Very rare. Loch near Faedaland, North-mavin.
28. *Lolium perenne*. Meadows and pastures.
29. *Elymus urenarius*. Sandy sea-shores. Common.
30. *Triticum repens*. Everywhere common. Shetland name Whigga.

TETRANDRIA MONOGYNIA.

31. *Scabiosa succisa*. All damp humid soils.
32. *Asperula odorata*. Dry banks. Rare. Bardister, Northmavin.
33. *Galium saxatile*. Heaths. Abundant.
— *verum*. Dry banks. Frequent.
— *boreale*. Sides of lakes. Not common.
— *Aparine*. Sea-shores. Common.
34. *Plantago major* and *lanceolata*. Waste places. Common.
— *media*. Not common.
— *maritima* and *Coronopus*. Sea-shore. Common.
35. *Alchemilla vulgaris*. Fallow lands. Rare. Near Ollaberry.
— *alpina*. Rare. Ronas-hill.

TETRANDRIA TETRAGYNIA.

36. *Potamogeton natans*. Shallow pools. Common.
— *heterophyllus*. Deeper ditches. Abundant.
37. *Sagina procumbens*. Waste grounds. Common.

PENTANDRIA MONOGYNIA.

38. *Myosotis arvensis*. Fields, &c. Common.
— *cæspitosa*. Brooks and pools. Abundant.

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43. *Anagallis tenella*. Bogs. Not common.
44. *Azalea procumbens*. Rare. Ronas Hill, Northmavin.
45. *Jasione montana*. Dry banks. Common.
46. *Viola canina*. Common.
— *tricolor*. Everywhere abundant.
47. *Lonicera Periclymenum*. Cliffs, &c. Not common.
48. *Hedera Helix*. Rare. Pictishburgh. Walls.

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49. *Gentiana amarella*. On limestone. Not common.
— *campestris*. Pastures. Common.
50. *Daucus Carota*. Waste ground. Abundant.
51. *Chærophyllo sylvestre*. Waste places. Common.
52. *Angelica sylvestris*. Damp situations. Abundant.
53. *Ligusticum scoticum*. Rocky or sandy sea-shores.
54. *Carum Carui*. Damp meadows. Rare. Near Refirth, Island of Yell : probably not indigenous.
55. *Hydrocotyle vulgaris*. Marshy places. Common.
56. *Heracleum Sphondylium*. Dry pastures. Abundant.
57. *Conium maculatum*. Shady situations. Not common.
58. *Pastinaca sativa*. Waste ground. Not common.

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60. *Statice Armeria*. Sea-shores. Abundant.
— *Limonium*. Rare. Knab, near Lerwick.
61. *Linum catharticum*. Dry heaths. Common.

PENTANDRIA HEXAGYNIA.

62. *Drosera longifolia*. Rare. Lamhoga, Island of Fetlar.
— *rotundifolia*. Mossy hills. Rare. Yell and Northmavin.

HEXANDRIA MONOGYNIA.

63. *Scilla verna*. Common everywhere.
— *nutans*. Rare. Probably not indigenous.
64. *Narthecium ossifragum*. Turfy heaths. Abundant.
65. *Juncus effusus*. Turfy bogs. Common. Shetland name, Floss.
— *trifidus*. Elevated bogs. Not common.
— *squarrosum*. Boggy heaths. Common.
— *uliginosus*. Moist places. Common.
— *triglumis*. Rare. Ronas Hill.
66. *Luciola sylvatica*. Shady glens. Abundant.
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67. *Rumex crispus*. Very common.
Ann. & Mag. N. Hist. Vol. vii.

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HEPTANDRIA MONOGYNIA.

69. *Trientalis europaea*. Mountain heaths. Rare. Hermaness, Unst.

OCTANDRIA MONOGYNIA.

70. *Epilobium angustifolium*. Cliffs. Not common.
 ——— *montanum*. Rare. Near Snarravoe, Unst.
 ——— *palustre*. Wet places. Abundant.
71. *Vaccinium Myrtillus*. Dry heaths. Common.
72. *Erica vulgaris* (*Calluna*). Common.
 ——— *cinerea*. Common.
 ——— *Tetralix*. Abundant.

OCTANDRIA TRIGYNIA.

73. *Polygonum Persicaria*. Abundant. Wet places.
 ——— *Bistorta*. Rare. Broo, Dunrossness.
 ——— *aviculare*. Cultivated grounds. Common.

DECANDRIA MONOGYNIA.

74. *Arbutus Uva-ursi*. Not common.
 ——— *alpina*. Rare. Ronas Hill.

DECANDRIA DIGYNIA.

75. *Saxifraga oppositifolia*. Rare. Fitful Head.

DECANDRIA TRIGYNIA.

76. *Silene maritima*. Stony sea-shores. Abundant.
 ——— *acaulis*. Dry hills and stony places. Frequent.
77. *Stellaria media*. Waste and cultivated ground. Common.
78. *Arenaria peploides*. Sea-shores. Common.
 ——— *marina*. Sea-coast. Not rare.
 ——— *norvegica*. This interesting addition to the British Flora is confined, so far as I know, to the serpentine formation around the Bay of Baltasound in this island. Its specific description is as follows:—Root fibrous, long; stems numerous, branched, procumbent, sometimes more or less erect; leaves small, ovate, fleshy, glabrous, somewhat imbricate; flowers terminal, solitary, white, rather large; petals generally six, sometimes five, broadly ovate; calyx-sepals five, fleshy, glabrous as the leaves. Very abundant on the gravelly barren hills to the north of the bay, growing nearly on a level with the sea, along with *Cerastium latifolium* and *Cardamine hastulata*, which, with the exception of *Statice Armeria* and *Plantago maritima*, are almost the only plants to be found in its vicinity.

I first discovered this plant in May 1837: I was then only commencing the study of botany, and though I knew its genus, and so marked it in my herbarium, I could not make out its species.

In the end of July, the same year, Dr. Gilbert Macnab came to Unst, in the course of a botanical tour he was making through

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Rumex Acetosa and *Acetosella*. Abundant everywhere.

68. *Triglochin palustre*. Muddy situations. Common.

HEPTANDRIA MONOGYNIA.

69. *Trientalis europaea*. Mountain heaths. Rare. Hermaness, Unst.

OCTANDRIA MONOGYNIA.

70. *Epilobium angustifolium*. Cliffs. Not common.
 ——— *montanum*. Rare. Near Snarravoe, Unst.
 ——— *palustre*. Wet places. Abundant.
71. *Vaccinium Myrtillus*. Dry heaths. Common.
72. *Erica vulgaris* (*Calluna*). Common.
 ——— *cinerea*. Common.
 ——— *Tetralix*. Abundant.

OCTANDRIA TRIGYNIA.

73. *Polygonum Persicaria*. Abundant. Wet places.
 ——— *Bistorta*. Rare. Broo, Dunrossness.
 ——— *aviculare*. Cultivated grounds. Common.

DECANDRIA MONOGYNIA.

74. *Arbutus Uva-ursi*. Not common.
 ——— *alpina*. Rare. Ronas Hill.

DECANDRIA DIGYNIA.

75. *Saxifraga oppositifolia*. Rare. Fitful Head.

DECANDRIA TRIGYNIA.

76. *Silene maritima*. Stony sea-shores. Abundant.
 ——— *acaulis*. Dry hills and stony places. Frequent.
77. *Stellaria media*. Waste and cultivated ground. Common.
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79. *Cherleria sedoides*. Rare. Hill of Klibberswick, Unst.

DECANDRIA PENTAGYNYIA.

80. *Sedum Telephium*. Rocks by the sea-side. Rare.
 81. *Agrostemma Githago*. Scarcely indigenous.
 82. *Lychnis Flos-cuculi*. Meadows and pastures. Common.
 — *sylvatica* (*L. dioica*). Fields, &c. Common.— β . *ves-pertina*. Rare.
 83. *Cerastium vulgatum*. Fields and waste grounds. Common.
 — *viscosum*. Common.
 — *tetrandrum*. Sand. Rare. Balta Island.
 — *latifolium*. Rare. Near Baltasound only.
 84. *Spergula arvensis*. Abundant. Shetland name, Meldy.

ICOSANDRIA PENTAGYNYIA.

85. *Crataegus Oxyacantha*. Rare. Near Tingwall.
 86. *Sorbus Aucuparia*. Precipices and cliffs. Not common.
 87. *Spiraea Ulmaria*. Swampy meadows. Common.

ICOSANDRIA POLYGYNIA.

88. *Rosa tomentosa*. Dry banks, &c. Abundant.

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90. *Tormentilla officinalis*. Dry heaths and pastures. Common.
— *reptans*. Dry heaths. Rare.
91. *Comarum palustre*. Wet boggy ground. Common.

POLYANDRIA MONOGYNIA.

92. *Papaver Rhæas*. Corn-fields. Not common.
— *dubium*. Common.

POLYANDRIA POLYGYNIA.

93. *Thalictrum alpinum*. Moist heaths. Abundant.
94. *Ranunculus Flammula*. Watery places. Common.
— *repens*. Dry barren pastures. Abundant.
— *acris*. Abundant everywhere.
95. *Ficaria ranunculoides*. Meadows and pastures. Frequent.
96. *Caltha palustris*. Marshy places. Common.

DIDYNAMIA GYNOSPERMIA.

97. *Ajuga reptans*. Common.
98. *Lamium purpureum*. Waste and cultivated grounds. Common.
— *intermedium*. Not common.
99. *Galeopsis Tetrahit*. Cultivated grounds. Common.
100. *Stachys palustris*. Moist meadows. Common.
— *ambigua*. Not common. Tingwall.
101. *Thymus Serpyllum*. Dry heaths. Common.
102. *Prunella vulgaris*. Meadows and pastures. Common.

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103. *Euphrasia officinalis*. Dry pastures. Abundant.
104. *Pedicularis sylvatica*. Moist heaths. Abundant.
— *palustris*. Boggy pastures. Common.

TETRADYNAMIA SILICULOSA.

105. *Draba incana*. Rare. Unst and Fetlar.
106. *Thlaspi Bursa-pastoris*. Waste and cultivated ground.
107. *Cochlearia officinalis*. Sea-shore and inland. Common.
108. *Bunias Cakile*. Sandy sea-shore. Common.

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109. *Cardamine pratensis*. Moist meadows. Common.
— *hastulata (Arabis petræa)*. Near Baltasound, Unst.
Rare.
110. *Sinapis arvensis*. Corn-fields. Common. Shetland name Runjy.
111. *Raphanus Raphanistrum*. Fields. Common.

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118. *Lathyrus pratensis*. Fields and way-sides. Common.

119. *Vicia Cracca*. Meadows and pastures. Common.

120. *Trifolium repens*. Meadows and pastures. Common.

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121. *Lotus corniculatus*. Pastures. Common.

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SYNGENESIA AEQUALIS.

123. *Sonchus arvensis*. Corn-fields. Common.

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124. *Leontodon Taraxacum*. Meadows and pastures. Not common.

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125. *Hieraceum sylvaticum*. Dry banks. Frequent.

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126. *Arctium lappa*. Sandy soils. Rare. Dunrossness.

127. *Carduus lanceolatus*. Waste and cultivated ground. Common.

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128. *Onopordum Acanthium*. Gravelly soils. Not common.

SYNGENESIA SUPERFLUA.

129. *Tanacetum vulgare*. Road-sides, &c. Abundant.

130. *Artemisia vulgaris*. Waste ground. Common.

131. *Gnaphalium dioicum*. Heaths and dry pastures. Common.

132. *Serratula alpina* (*Saussurea alpina*). Rare. Ronas Hill.

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 136. *Bellis perennis*. Meadows and pastures. Common.
 137. *Pyrethrum inodorum*. Waste grounds. Common.
 138. *Chrysanthemum Leucanthemum*. Meadows and pastures. Frequent.
 139. *Achillea Millefolium*. Dry meadows. Common.
 —— *Ptarmica*. Humid meadows. Common.

GYNANDRIA MONANDRIA.

140. *Orchis mascula*. Meadows and pastures. Frequent.
 —— *latifolia*. Wet situations. Abundant.
 141. *Satyrium viride* (*Habenaria virid.*). Heaths. Common.
 142. *Zostera marina*. Sea-shore. Abundant.

MONOE CIA MONANDRIA.

143. *Euphorbia helioscopia*. Cultivated grounds. Common.

MONOE CIA TRIANDRIA.

144. *Carex dioica*. Marshes. Abundant.
 —— *ovalis*. Heaths. Not common.
 —— *arenaria*. Sandy sea-shores. Common.
 —— *recurva*. Dry heaths. Common.
 —— *binervis*. Moist heaths. Frequent.
 —— *ampullacea*. Watery situations.

MONOE CIA TETRANDRIA.

145. *Sparganium natans*. Lakes. Abundant.
 —— *simplex*. Common.
 146. *Littorella lacustris* (*Plantago uniflora*). Common.
 147. *Urtica dioica*. Roads and way-sides. Common.
 148. *Myriophyllum spicatum*. Ditches and pools. Frequent.
 149. *Betula alba*. Shady banks. Not common.

DIOE CIA DIANDRIA.

150. *Salix fusca*. Dry heaths. Common.
 —— *aurita*. Banks of lakes, &c. Abundant.
 —— *aquatica*. Watery places. Not common.
 —— *herbacea*. Rare. Ronas Hill.

DIOE CIA TRIANDRIA.

151. *Empetrum nigrum*. Heaths. Common. Berries greedily devoured by *Lestrus parasiticus*.

DIOE CIA OCTANDRIA.

152. *Rhodiola rosea*. Rocks and cliffs. Common.

DIOE CIA MONADELPHIA.

153. *Juniperus communis*. Rare. Cliffs, Koningsburgh.

135. *Solidago Virgaurea*. Dry heaths and pastures. Common.
 136. *Bellis perennis*. Meadows and pastures. Common.
 137. *Pyrethrum inodorum*. Waste grounds. Common.
 138. *Chrysanthemum Leucanthemum*. Meadows and pastures. Frequent.
 139. *Achillea Millefolium*. Dry meadows. Common.
 —— *Ptarmica*. Humid meadows. Common.

GYNANDRIA MONANDRIA.

140. *Orchis mascula*. Meadows and pastures. Frequent.
 —— *latifolia*. Wet situations. Abundant.
 141. *Satyrium viride* (*Habenaria virid.*). Heaths. Common.
 142. *Zostera marina*. Sea-shore. Abundant.

MONOE CIA MONANDRIA.

143. *Euphorbia helioscopia*. Cultivated grounds. Common.

MONOE CIA TRIANDRIA.

144. *Carex dioica*. Marshes. Abundant.
 —— *ovalis*. Heaths. Not common.
 —— *arenaria*. Sandy sea-shores. Common.
 —— *recurva*. Dry heaths. Common.
 —— *binervis*. Moist heaths. Frequent.
 —— *ampullacea*. Watery situations.

MONOE CIA TETRANDRIA.

145. *Sparganium natans*. Lakes. Abundant.
 —— *simplex*. Common.
 146. *Littorella lacustris* (*Plantago uniflora*). Common.
 147. *Urtica dioica*. Roads and way-sides. Common.
 148. *Myriophyllum spicatum*. Ditches and pools. Frequent.
 149. *Betula alba*. Shady banks. Not common.

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POLYGAMIA MONOCIA.

154. *Atriplex laciniata*. Sea-coast. Common.
 ——— *patula*. Cultivated and waste ground.

CRYPTOGAMIA FILICES.

155. *Polypodium vulgare*. Walls and shady banks. Common.
 156. *Aspidium Filix-mas*. Common.
 ——— *Filix-fæmina*. Common.
 157. *Scolopendrium vulgare*. Moist shady places. Rare.
 158. *Osmunda regalis*. Very rare. Near Sandwick, Unst.
 ——— *Lunaria*. Hilly pastures. Common.
 159. *Ophioglossum vulgatum*. Very rare. Burn of Sundybanks,
 near Scalloway, Mainland.

CRYPTOGAMIA LYCOPODIACEÆ.

160. *Lycopodium clavatum*. Rare. Ronas Hill.
 ——— *Selaginoides*. Moist heaths. Common.
 ——— *Selago*. Also abundant.

CRYPTOGAMIA EQUISETACEÆ.

161. *Equisetum sylvaticum*. Shady banks. Not common.
 ——— *fluviale*. Wet places. Rare. Loch of Cliff.
 ——— *palustre*. Marshes. Common.
 ——— *arvense*. Moist fields. Abundant.

EXTINCT SPECIES.

Pinus Picea.

An old man told me that he found a fir tree, about six feet below the surface of the ground, when digging peat at the east side of Unst. It was about forty feet in length, and about six feet in circumference. It was much decayed on the outside, but quite sound in the heart.

The cones of the Silver Fir (according to Dr. Neill) have been found in the peat moors in Orkney, although I am not aware of their being observed in Shetland; and as this species seems, when planted, to succeed the best of all its tribe, it may be supposed that the tree in question was of this species.

Corylus Avellana.

The nuts and trunks of this tree have also at different times been dug up in the peat moors.

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